## R.E.U. Students Investigate the Nano World W. Eugene Collins, Fisk University, DMR-0139180

Nanorods, and carbon nanotubes have attracted much attention due to potential applications in electronic and optoelectronic devices. The study of the physical and chemical properties of these nano-components will allow for development of useful devices. Research by REU students included development of non-catalystic growth techniques for carbon nanotubes, nanorod fabrication for photocell development, crystal growth, and glass fabrication for laser applications. Students used various techniques for analysis of data to include 1) Xray Photo-electron Spectroscopy, 2) Scanning Electron spectroscopy, 3) Atomic Force Microscopy, 4) UV-Vis Spectroscopy, Raman Spectroscopy, and 5) Fourier Infrared Spectroscopy.

